Approved For Release 2002/06/17: CIA-RDP78B04747A000700050006-4

STATINTL

When the SWTE contract was first negotiated and let, it was decided that NPIC would furnish the targets for the device. Those chosen were targets whose maximum frequency was 1040 lines/mm.

Hence this was written in the specifications for optimum performance fee. Subsequently, it was found that the targets would not suffice, and funds were allotted to to make targets with STATINTL a miximum frequency of 1000 lines/mm. But the specs were not changed. To realistically apply the criteria, it must be understood that the 1000 lines/mm achievement constitutes the optimum performance, and the fee forresponding to the 1040 figure should be allotted accordingly.

The specification dealing with accuracy was also in error, since no precise definition was appended. Consideration has subsequently been given to this, and decided that the reasonable specification of performance would be the spread of readings or computed points for the MTF curve; this is described by the standard deviation or variance. The acceptance tests show a standard deviation below five percent, the figure for the maximum fee. It is therefore recommended that that fee be awarded.

Declass Review by NIMA/DOD

Approved For Release 2002/06/17 : CIA-RDP78B04747A000700050006-4

6539. TEST DATA.

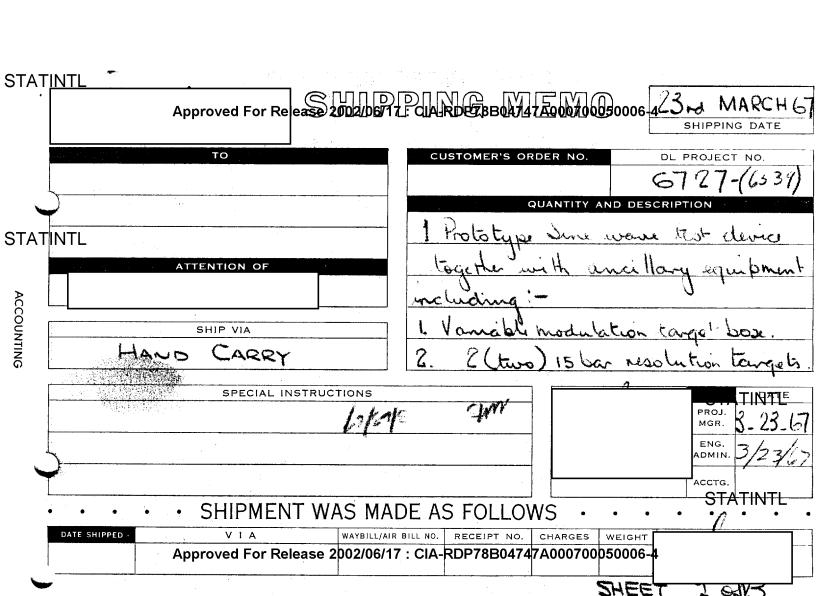
FIRST OBJECTIVE: WILD 10x N.A. 0.25.

8.00 mm MEASURED.

mm Nominal Limiting Resolution: TARGET 2-9 RESOLVED mm MEASURED. TARGET 2-10 NOT RESOLVED.

						The second of th	T STATISTIC
TARGET	FILTER	130Bi	ZOOM	OBSERVER			NOTES. Average & DOID
2-3	15-5	lo	1.18	96 // 96	4	105	102,5 /25.6
2-4	15-5	lo		92		104	100,5/25.1
2-5	15-5	W	.88	113	120	118 120 119	118.3/29.6
2-6	15.5	20	MB	114 143	112	126	118.3/29.6
2-7	15-5	20	147	142	142	142 148 155	145.3/36.3
2-8	15:5	Zo		216	202 202	211 215 194	Image very fuzzy.
		:		zero co Roomlig	RRECTION: MAX HTS: 1 Oleak	CONTRAST AT O DEGREES lamp Shiring 28 Kg	STATINTL
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DATE S	HIPPED /	VIA		R BILL NO. RECEIPT NO		

Here is the file of papers. I've written a few melodious sentences necessary for the imspection report, etc. now has the equipment. He will **STATINTL** construct the necesssary pieces 25X1 have to adant it to the Beck Bench. He will this next week, and STATINTL be in will therefore not be able to work on the SWTE until the 3rd of April. By that time the manual should be here. Rots of Ruck. 2h March 1967 (DATE)

FORM NO. 101 REPLACES FORM 10-1 1 AUG 54

REPLACES FORM 10-101

MEMORANDUM FOR:

STATINTL

(47)

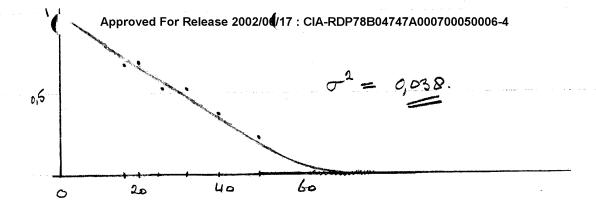
(Approved For Release 2002/06/17 : CIA-RDP78B04747A000700050006-4

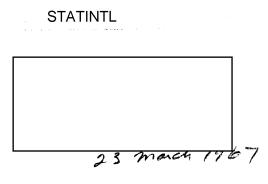
 langer	. V	L φav	sur q	V	1/4	T= 0.127	
2-3	15.85	25.6	.188	.188	5.31	.68	ľ
2-4	19.96	25.1	180	.180	5,55	.70	l
2-5	25.12	29.6	1446	.243	4.11	•52	
2-6	31.63	29.6	1244	, 243	4.11	.52	
2-7	39.82	36.3	,350	.347	789	.365	
7-8	50.14	51.7	-616	.604	1.66	.710	
ž		r					l

V = 1.010 sin2p - 9,049 sin p

3/23/69

STATINTL





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$$\frac{1}{V_{\text{Ren}}} = 7.3302 - 0,1116 \text{ } \gamma$$

$$= 7.7568 \left(9.945 - \frac{\gamma}{75.2} \right) 1.082$$

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22-863/22-864 HIGH RESOLUTION TEST TARGETS

This target contains three groups of fifteen-bar high contrast targets. The spatial frequency ratio between successive targets is $10\sqrt{10}$. The target of highest spatial frequency in each group is repeated as the target of lowest spatial frequency in the next group, making a total of 31 distinct target frequencies. The maximum variation in width between light and dark bars is less than 5 per cent over the 1 to 300 cycles/mm range. The density difference is greater than 2.0. The spatial frequencies in each group in cycles per millimeter are as follows:

GROUP I	GROUP II	GROUP III
1,00	10.00	100.0
1. 26	12.59	125.9
1. 58	15.85	158.5
2.00	19.96	199.6
2.51	25.12	251, 2
3.16	31. 63	316.3
3.98	39.82	398.2
5.01	50.14	501.4
6.31	63.13	631. 3
7.95	79.48	794.8
10.00	100.00	1000.0

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the	5. The clause entitled "DELAVERY:" is smended, in part, to include following:
	1. Two (2) copies of all reports required under this contract shall be forwarded direct to the Contracting Officer.
	2. Three (3) copies of all reports required under this contract shall be forwarded to the Technical Representative of the Contracting Officer at the following address:
STATINTL	
	STATINTL 6. The clause entitled "CONGRACT COST:" is amended to read:
	7. The clause entitled "COMPRACT FIRE:" is amended to read: The fee for performance of this contract shall be determined by application of performance and cost incentives as follows:
	> 1. Resolution:
	Spatial frequency capability of the instrument will be evaluated on three levels of performance:
	a. 228 1/mm (minimum acceptable) b. 600 1/mm c. 1040 1/mm
•	No Government Equipment will be furnished as targets.
	2. Accuracy of Modulation Transfer Function Measurement:
	The accuracy and precision of the equipment shall be demonstrated by the following procedure:
	A microscope objective of high quality (25X1 or equal) is to be placed in a finite fixture having an adjustable aperture stop. This atop shall be circular

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	te te ro	e a lower esting ter cal shift The si	frequency to rget. The fi ts of 0, 1/4 ine-wave test	to allow the len mode. The diffrhan the highest ixture shall also 1/2, 3/4, and it the lens under	action limit frequency on o permit lend l wave of dea	chell the itudinal ocussing. measure
,	tw	o differe	nt marine	rements shall be stops. Comparis curves shall fa	made for et	
	~7			ent (Target).		
	-7	b. fir	ve (5) per c	ent (Incentive G	oal). ee to	STATINTL
A remain	ll other t the same.	erms end	conditions a	or the said contr	ract shall be	
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